

WHAT IS CLAIMED IS:

1. A biochemical reaction cartridge, comprising:
a reaction portion, comprising a chamber and a
passage, for-effecting a biochemical reaction, and
5 a solution storage portion, which is isolated
or separated from said reaction portion, for storing a
solution in a position corresponding to the chamber,
wherein said cartridge is provided with a
penetrable partition member disposed between said
10 solution storage portion and said reaction portion so
as to move the solution from said solution storage
portion to the chamber of said reaction portion.
2. A cartridge according to Claim 1, wherein
15 said partition member is penetrable by pushing with a
valve stem.
3. A cartridge according to Claim 2, wherein the
chamber is opened outward by a first-stage pushing of
20 the valve stem with a tool needle to move the solution
in said solution storage portion to the chamber, and is
sealed up by a second-stage pushing of the valve stem
with the tool needle.
- 25 4. A cartridge according to Claim 3, wherein
said partition member is provided with two pressing
rods including a shorter pressing rod for use in the

first-stage pushing and a longer pressing rod for use in the second-stage pushing.

5 5. A cartridge according to Claim 4, wherein the shorter and longer pressing rods are coaxially disposed opposite from each other.

10 6. A cartridge according to Claim 1, wherein said cartridge has code for representing information on a treatment sequence including the order of penetration of said partition member.

15 7. A cartridge according to Claim 1, wherein said cartridge has identification code for representing the type of cartridge.

20 8. A biochemical treatment process which uses a biochemical reaction cartridge comprising a reaction portion including at least one chamber and a plurality of passages, a solution storage portion including a plurality of storage chambers, which are isolated or separated from the reaction portion, for storing a solution in a positions corresponding to said at lease one chamber, and at least one penetrable partition member disposed between the solution storage portion and the reaction portion; said process comprising:
25 a first step of moving a solution from an

associated storage chamber to a corresponding chamber of the reaction portion by penetrating said at least one partition member,

5 a second step of effecting treatment with the solution moved to the chamber of the reaction portion,

a third step of moving a solution in a storage chamber other than the chamber from which the solution is moved in said first step by selectively penetrating at least one second partition member other than the partition member used in said first step, and

10 a fourth step of effecting treatment with the solution moved to the storage chamber in said third step.

15 9. A process according to Claim 8, wherein said cartridge has code for representing information on a treatment sequence including the order of penetration of said partition members.

20 10. A process according to Claim 8, wherein said cartridge has identification code for representing the type of cartridge.

11. A biochemical treatment apparatus,
25 comprising:

an accommodation unit in which a biochemical reaction cartridge comprising a reaction portion,

comprising at least one chamber and at least one passage, for effecting a biochemical reaction, and a solution storage portion, which is isolated or separated from the reaction portion, for storing a
5 solution in a position corresponding to said at least one chamber, is mounted,

driving means for driving penetration means for penetrating a partition member of the biochemical reaction cartridge mounted in said accommodation unit,
10 and

reaction treatment means for causing a reaction of a specimen in the biochemical reaction cartridge by acting on the biochemical reaction cartridge,

15 wherein said biochemical treatment apparatus further comprises control means for successively driving said drive means and said reaction treatment means.

20 12. An apparatus according to Claim 11, wherein the penetration means is provided in the biochemical reaction cartridge.

25 13. An apparatus according to Claim 11, wherein the penetration means is provided to the biochemical treatment apparatus.

14. An apparatus according to Claim 11, wherein the biochemical treatment apparatus further comprises code reading means for reading identification code provided to the biochemical reaction cartridge.

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15. An apparatus according to Claim 14, wherein the biochemical treatment apparatus further comprises memory means for memorizing a driving sequence of said drive means in advance in corresponding to the identification code.

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